

BAB 5

SIMPULAN

5.1. Simpulan

Dari data penelitian yang telah diinterpretasikan, dapat ditarik kesimpulan :

- Asam tartrat sebagai bahan *effervecent* tablet berpengaruh secara signifikan terhadap sifat fisik tablet dan profil pelepasan tablet lepas lambat kaptopril. Asam tartrat menurunkan kekerasan tablet, meningkatkan kerapuhan tablet, mempercepat *floating lag time*, dan memperkecil konstanta laju disolusi. Sedangkan kombinasi perbandingan polimer HPMC K4M–*guar gum* meningkatkan kekerasan tablet, menurunkan kerapuhan tablet, mempercepat *floating lag time*, dan memperkecil konstanta laju disolusi. Interaksi konsentrasi asam tartrat dan kombinasi perbandingan polimer HPMC K4M – *guar gum* memberikan pengaruh meningkatkan kekerasan tablet, menurunkan kerapuhan tablet, meningkatkan *floating lag time*, dan memperkecil konstanta laju disolusi..
- Formula optimum tablet kaptopril dapat diperoleh dengan kombinasi asam tartrat 3,55% dan kombinasi perbandingan polimer HPMC K4M – *guar gum* 1,105:1 yang memiliki sifat fisik tablet dan disolusi yang memenuhi persyaratan, yaitu kekerasan tablet 12,44 Kp, kerapuhan tablet 0,29%, *floating lag time* 0,92 menit, dan konstanta laju disolusi 0,02 mg/ menit.

5.2. Alur Penelitian Selanjutnya

Dilakukan penelitian pembuktian beberapa formula optimum terpilih, dan macam *effervecent* yang lain terhadap sifat fisik tablet yang kemudian dibandingkan dengan hasil secara teoritis.



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